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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/682,385	08/27/2001	Ji Zhang	CISCP229/340	2103

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EXAMINER

VO, TUNG T

ART UNIT PAPER NUMBER

2613

DATE MAILED: 09/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/682,385

Applicant(s)

ZHANG ET AL.

Examiner

Tung T. Vo

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 06/29/04.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 August 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 06/24/2004 has been entered.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Wasserman et al. (US 5,812,791) as set forth in the previous Office Action, Paper No. 8.
4. Claims 1-2, 5-13, 17-20, 21-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Oku et al. (US 6,084,637) the previous Office Action, Paper No. 8..

***Response to Arguments***

5. Applicant's arguments filed 06/29/04 have been fully considered but they are not persuasive.

The applicant argued that the Advisory and most recent office action both redundantly recite the same block of language and fail to acknowledge, address or traverse advancing remarks filed in May 26, 2004; particularly neither Wasserman nor Oku teaches “identifying a reference sub-region based on at least the motion information”, “storing a reference sub-region identified by the motion information”, and “on-chip memory” of the remarks dated May 26, 2004.

The examiner respectfully disagrees with the applicant. It is submitted that that Wasserman discloses the GOP in the figure 1 comprises B, P, and I pictures; each picture comprises slices that are divided into Macroblocks; Macroblocks are considered a sub-regions comprising a plurality of pixels and identified by the memory controller (160 of fig. 2); the identified macroblocks (sub-regions) are stored in the first memory (110 of fig. 2) called on-chip memory based on the at least motion information calculated by the motion compensation unit (175 of fig. 2; see also figure 8 and col. 19, lines 12-38, lines 47-57; col. 20, lines 45-54, e.g. each macro-block is stored in the memory based on the at least motion vector).

It is further submitted that Oku teaches means (9 of fig. 1, e.g. the decoded picture data write means (9) for writing the decoded picture data to the memory (11 of fig. 1)) for storing the reference sub-region (fig. 4 and fig. 5, e.g. the picture areas are identified by the decoding addresses) identified by the motion information in a first memory (11 of fig. 1) base at least motion information computed by motion compensation (4 of fig. 1). Accordance to the figure 4

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of Oku, the reference sub-regions are considered as reference picture area (1) and (2), B picture area, OSD data area and coded picture data buffering area; these areas are identified by the operation mode control (1 of fig. 1) and the decoder (2 of fig. 1) based on the motion information that is predicted by the motion compensation (4 of fig. 1), and the reference sub-regions are stored in the memory (11 of fig. 1, fig. 5) based on the motion information from motion compensation (4, 9, and 11 of fig. 1)); and the memory (11 of fig. 1) stores the reference sub-regions called on chip memory. In view of discussion above, Wasserman or Oku anticipates the claimed features.

### ***Conclusion***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See the previous Office Action, Paper No. 8.

### ***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung T. Vo whose telephone number is (703) 308-5874. The examiner can normally be reached on 6:30 AM - 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris. Kelley can be reached on (703) 305-4856. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



**TUNG T. VO**  
**PATENT EXAMINER**

T.Vo

Tung T. Vo  
Primary Examiner  
Art Unit 2613